

## **AMENDMENTS TO THE SPECIFICATION**

**Please insert the following heading on page 1 at line 6:**

### **BACKGROUND OF THE INVENTION**

**Please delete the following headings on page 6 beginning at line 24:**

~~DISCLOSURE OF THE INVENTION~~

~~PROBLEMS TO BE SOLVED BY THE INVENTION~~

**Please replace the heading on page 11 at line 7, with the following rewritten heading:**

### **SUMMARY OF THE INVENTION** **SOLUTION OF THE PROBLEM**

**Please replace paragraph [0023] beginning on page 11 with the following rewritten paragraph [0023]:**

[0023] The present invention provides a wireless transmission system in which a plurality of wireless stations each transmit a signal to a receiving station, wherein a path diversity system is formed by a transmitter-side wireless station, a multi-path channel and the receiving station, the wireless transmission system including: a transmission timing control section for determining a transmission start timing, at which to start the signal transmission, to be a timing obtained by delaying a reference timing to be a reference for the signal transmission by a predetermined delay amount; a transmitting section for transmitting the signal at the transmission start timing determined by the transmission timing control section; and a receiving section provided in the receiving station for receiving the transmitted signal. The signal, wherein the predetermined delay amount is determined so that: signals are received by the receiving section at a plurality of signal-receiving timings; the number of signal-receiving timings is less than or equal to a predetermined maximum number of effective branches; a difference between the signal-receiving timings is greater than or equal to a predetermined delay resolution; and a difference between a maximum value and a minimum value of the signal-receiving timing is less than or equal to a predetermined maximum delay.

**Please replace paragraph [0033] beginning on page 14 with the following rewritten paragraph [0033]:**

[0033] In one embodiment, the wireless transmission system further includes a transmitting station for transmitting, to the wireless stations, a signal to be transmitted to the receiving station; the transmitting station includes: a delay amount selecting section for selecting, from among a plurality of candidate values, a delay amount to be given to a signal transmitted by the wireless station; a delay amount adding section for adding the delay amount selected by the delay amount selecting section to the signal; and a transmitter signal transmitting section for transmitting, to the wireless station, the signal to which the delay amount has been added by the delay amount adding section; and the transmission timing control section is provided in the wireless station. The station; the wireless station includes: a relay receiving section for receiving the signal to which the delay amount has been added, transmitted by the transmitter signal transmitting section; a delay amount extracting section for extracting the delay amount from a signal received from the relay receiving section; the transmission timing control section determines the transmission start timing to be a timing obtained by delaying the reference timing by the delay amount extracted by the delay amount extracting section; and the transmitting section transmits a signal received by the relay receiving section to the receiving station.

**Please delete the heading on page 24 at line 13:**

~~EFFECT OF THE INVENTION~~

**Please delete the heading on page 91 at line 12:**

~~INDUSTRIAL APPLICABILITY~~